

Radio-Button

Radio Button The `<aava-radio-button>` component provides a radio button group for single-choice selections with multiple layout orientations, size options, custom color theming, and smooth interaction effects. It includes full Angular forms integration and accessibility compliance.

How to use ■ `import { AavaRadioButtonComponent } from "@aava/play-core"` ; **Basic Usage** ■ Simple radio button group implementation with multiple options and two-way data binding.

Angular Preview Code

```
<aava-radio-button [options] = " [ { label: 'Option 1', value: 'option1' }, { label: 'Option 2', value: 'option2' }, { label: 'Option 3', value: 'option3' }, ] " name = " basic-radio " selectedValue = " option1 " (selectedValueChange) = " onRadioChange($event) " > </ aava-radio-button > onRadioChange ( value : string ) { console . log ( 'Radio button selection changed:' , value ) ; }
```

Orientations ■ The radio button component supports both horizontal and vertical layouts to accommodate different design requirements.

Angular Preview Code

```
<aava-radio-button [options] = " [ { label: 'Option 1', value: 'option1' }, { label: 'Option 2', value: 'option2' }, { label: 'Option 3', value: 'option3' }, ] " name = " vertical-radio " orientation = " vertical " selectedValue = " option2 " (selectedValueChange) = " onRadioChange('vertical', $event) " > </ aava-radio-button > <aava-radio-button [options] = " [ { label: 'Option 1', value: 'option1' }, { label: 'Option 2', value: 'option2' }, { label: 'Option 3', value: 'option3' }, ] " name = " horizontal-radio " orientation = " horizontal " selectedValue = " option3 " (selectedValueChange) = " onRadioChange('horizontal', $event) " > </ aava-radio-button > onRadioChange ( orientation : string , value : string ) { console . log ( ` ${ orientation } orientation selection changed: ` , value ) ; }
```

Available Orientations ■ vertical - Stacked layout with options arranged vertically (default) horizontal - Inline layout with options arranged horizontally

Sizes ■ Three size options to match different interface densities and visual hierarchies.

Angular Preview Code

```
<aava-radio-button [options] = " [ { label: 'Option 1', value: 'option1' }, { label: 'Option 2', value: 'option2' }, { label: 'Option 3', value: 'option3' } ] " name = " small-radio " size = " sm " selectedValue = " option1 " > </ aava-radio-button > <aava-radio-button [options] = " [ { label: 'Option 1', value: 'option1' }, { label: 'Option 2', value: 'option2' }, { label: 'Option 3', value: 'option3' } ] " name = " medium-radio " size = " md " selectedValue = " option2 " > </ aava-radio-button > <aava-radio-button [options] = " [ { label: 'Option 1', value: 'option1' }, { label: 'Option 2', value: 'option2' }, { label: 'Option 3', value: 'option3' } ] " name = " large-radio " size = " lg " selectedValue = " option3 " > </ aava-radio-button >
```

Available Sizes ■ sm (Small) - Compact size for dense interfaces md (Medium) - Standard size for most use cases (default) lg (Large) - Prominent size for important selections

States ■ Various states for different user scenarios including selection, disabled, and interactive states.

Angular Preview Code

```
<aava-radio-button [options] = " [ { label: 'Option 1', value: 'option1' }, { label: 'Option 2', value: 'option2' }, { label: 'Option 3', value: 'option3' }, ] " name = " default-states " selectedValue = " " > </ aava-radio-button > <aava-radio-button [options] = " [ { label: 'Option 1 (Disabled)', value: 'option1', disabled: true }, { label: 'Option 2', value: 'option2' }, { label: 'Option 3', value: 'option3' } ] " name = " disabled-states " selectedValue = " option2 " > </ aava-radio-button > <aava-radio-button [options] = " [ { label: 'Option 1 (Disabled)', value: 'option1', disabled: true }, { label: 'Option 2 (Disabled)', value: 'option2', disabled: true }, { label: 'Option 3 (Disabled)', value: 'option3', disabled: true }, ] " name = " all-disabled " selectedValue = " option3 " > </ aava-radio-button >
```

Available States ■ Unselected - Default state for non-selected options Selected - Active state showing the selected option Disabled - Non-interactive state for unavailable options

Custom Colors ■ Comprehensive color customization for radio buttons and labels to match design requirements.

Angular Preview Code

Color Customization Options ■ `labelColor` - Custom color for option labels `color` - Custom color for the dot

Form Integration ■ Form integration with `ControlValueAccessor` implementation for reactive from Angular

Angular Preview Code

Reactive Form Features ■ `FormControl` binding - Direct integration with Angular reactive forms Value tracking - Proper change detection and emission Disabled control - Programmatic enable/disable support

Accessibility Support ■ The Radio Button component provides comprehensive accessibility features to ensure compatibility with screen readers, keyboard navigation, and mobile devices.

ARIA Support ■ `role="radiogroup"` - Container identifies as a radio button group `role="radio"` - Each option is

properly identified as a radio button
aria-checked - Indicates selection state (true/false)
aria-disabled - Identifies disabled options
aria-label - Describes the radio group ("Radio button group with X options")
aria-labelledby - Links radio buttons to their text labels
aria-describedby - Provides additional context for screen readers
aria-hidden="true" - Hides decorative elements from assistive technology
Keyboard Navigation ■ Arrow Keys (↑↓←→) - Navigate between radio options
Space/Enter - Select the currently focused option
Tab - Enter and exit the radio group
Circular Navigation - Arrow keys wrap around when reaching first/last option
Skip Disabled - Navigation automatically skips disabled options
Visual Focus - Clear focus indicators show current keyboard position
WCAG 2.1 Compliance ■ Level AA compliant for color contrast
Keyboard Accessible - All functionality available via keyboard
Focus Management - Logical focus order and clear indicators
Semantic Structure - Proper HTML roles and relationships
Error Prevention - Clear state indication prevents user confusion
API Reference ■ Inputs ■ Property Type Default Description
options RadioOption[] [] Array of radio button options
name string " HTML name attribute for the radio group
selectedValue string " Currently selected option value
size 'sm' | 'md' | 'lg' 'md' Size of radio buttons
orientation 'horizontal' | 'vertical' 'vertical' Layout orientation
color string " Custom color for radio button and glow
labelColor string " Custom color for option labels
radio 'dot' | 'none' 'dot' Whether to show the inner dot
animation 'none' | 'shadow' 'none' Animation effect for selection
Outputs ■ Event Type Description
selectedValueChange EventEmitter<string> Emitted when selection changes
CSS Custom Properties ■ Property Description
--radio-group-gap Gap between radio button options
--radio-checkmark-background Background color of the radio button circle
--radio-checkmark-border Border color of the radio button
--radio-checkmark-border-radius Border radius for the radio button
--radio-checkmark-background-disabled Background when disabled
--radio-checkmark-border-disabled Border color when disabled
--radio-dot-background Background color of the inner dot
--radio-dot-border-radius Border radius of the inner dot
--radio-dot-background-disabled Dot background when disabled
--radio-label-color Text color for option labels
--radio-label-font Font properties for labels
--radio-label-margin-left Left margin for labels
--radio-label-color-disabled Label text color when disabled
--radio-label-cursor-disabled Cursor style when disabled
--radio-cursor Cursor style for interactive elements
--radio-cursor-disabled Cursor style when disabled
--radio-custom-glow-color Custom glow color for selected state
--radio-size-sm Size dimensions for small variant
--radio-size-md Size dimensions for medium variant
--radio-size-lg Size dimensions for large variant
--radio-size-sm-dot Dot size for small variant
--radio-size-md-dot Dot size for medium variant
--radio-size-lg-dot Dot size for large variant
--radio-size-sm-label Label font size for small variant
--radio-size-md-label Label font size for medium variant
--radio-size-lg-label Label font size for large variant
Best Practices ■ Design Guidelines ■ Provide clear options - Use descriptive labels that clearly distinguish choices
Limit option count - Keep radio groups to 7 or fewer options for usability
Choose appropriate orientation - Use vertical for longer lists, horizontal for 2-4 items
Include default selection - Pre-select the most common or safe option when appropriate
Group related options - Only use radio buttons for mutually exclusive choices
Consider disabled states - Disable options that aren't currently available
Performance ■ Optimize option rendering - Use trackBy functions for dynamic option lists
Debounce rapid changes - Consider debouncing for real-time validation
Minimize re-renders - Use OnPush change detection strategy
Efficient event handling - Use event delegation for large option lists
Form Integration ■ Test with forms - Ensure proper integration with your form validation
Handle validation - Provide clear feedback for required selections
Consider reset behavior - Define what happens when forms are reset
Support reactive forms - Use proper FormControlValueAccessor implementation

```

<aava-radio-button
  [options]="[
    { label: 'Option 1', value: 'option1' },
    { label: 'Option 2', value: 'option2' },
    { label: 'Option 3', value: 'option3' },
  ]"
  name="basic-radio"
  selectedValue="option1"
  (selectedValueChange)="onRadioChange($event)"
>
</aava-radio-button>

```

```

  onRadioChange(value: string) {
    console.log('Radio button selection changed:', value);
  }

<aava-radio-button
  [options]="[
    { label: 'Option 1', value: 'option1' },
    { label: 'Option 2', value: 'option2' },
    { label: 'Option 3', value: 'option3' },
  ]"
  name="vertical-radio"
  orientation="vertical"
  selectedValue="option2"
  (selectedValueChange)="onRadioChange('vertical', $event)"
>
</aava-radio-button>
<aava-radio-button
  [options]="[
    { label: 'Option 1', value: 'option1' },
    { label: 'Option 2', value: 'option2' },
    { label: 'Option 3', value: 'option3' },
  ]"
  name="horizontal-radio"
  orientation="horizontal"
  selectedValue="option3"
  (selectedValueChange)="onRadioChange('horizontal', $event)"
>
</aava-radio-button>

```

```

  onRadioChange(orientation: string, value: string) {
    console.log(`${orientation} orientation selection changed:`, value);
  }

```

```

<aava-radio-button
  [options]="[
    { label: 'Option 1', value: 'option1' },
    { label: 'Option 2', value: 'option2' },
    { label: 'Option 3', value: 'option3' }
  ]"
  name="small-radio"
  size="sm"
  selectedValue="option1"
>
</aava-radio-button>
<aava-radio-button
  [options]="[
    { label: 'Option 1', value: 'option1' },
    { label: 'Option 2', value: 'option2' },
    { label: 'Option 3', value: 'option3' }
  ]"
  name="medium-radio"
  size="md"
  selectedValue="option2"
>
</aava-radio-button>
<aava-radio-button
  [options]="[
    { label: 'Option 1', value: 'option1' },
    { label: 'Option 2', value: 'option2' },
    { label: 'Option 3', value: 'option3' }
  ]"
  name="large-radio"
  size="lg"
  selectedValue="option3"
>
</aava-radio-button>
<aava-radio-button
  [options]="[
    { label: 'Option 1', value: 'option1' },
    { label: 'Option 2', value: 'option2' },
    { label: 'Option 3', value: 'option3' }
  ]"
  name="default-states"
  selectedValue=""
>
</aava-radio-button>
<aava-radio-button
  [options]="[
    { label: 'Option 1 (Disabled)', value: 'option1', disabled: true },
    { label: 'Option 2', value: 'option2' },
    { label: 'Option 3', value: 'option3' }
  ]"
  name="disabled-states"
  selectedValue="option2"
>
</aava-radio-button>
<aava-radio-button
  [options]="[
    { label: 'Option 1 (Disabled)', value: 'option1', disabled: true },
    { label: 'Option 2 (Disabled)', value: 'option2', disabled: true },
    { label: 'Option 3 (Disabled)', value: 'option3', disabled: true }
  ]"
  name="all-disabled"
  selectedValue="option3"
>
</aava-radio-button>

```

■ No code found

■ No code found